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Asbestos, Lead, and Hazardous Materials Pre-demolition Survey Report

for

Palo Alto Veterans Administration Hospital VA PAHCS, Building 23, Gymnasium and Pool

Acumen Project No. SMG 2801B

December, 2008

Prepared for:

SmithGroup/The Design Partnership Associate
301 Battery Street, 7th floor
San Francisco, CA

This report was prepared by:

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This report was reviewed by:

Paul M. Spillane, CIH, CAC
Principal Industrial Hygienist

Table of Contents

1.0 Introduction

The purpose of this letter is to report the findings of an asbestos and lead survey conducted at the above referenced facility by Acumen Industrial Hygiene, Inc. (Acumen). It is understood that Building 23 is scheduled for demolition. Mr. Mark T. Schmidt, Certified Asbestos Consultant (CAC) #99-2641, and California department of Public Health Lead Inspector/Assessor #5838 conducted the investigation at the building on November 3, 2008. The inspection was limited to accessible building areas and excluded roofs, wall cavities, and other inaccessible interstitial spaces. Previous survey documents of the building were reviewed. Acumen concluded that there are asbestos and lead containing materials in place at the building.

The objectives of this investigation were as follows:

- To identify regulated asbestos containing materials (RACMs), defined by Bay Area Air Quality Management District (BAAQMD). RACMs and Class I and II materials that will be rendered friable will need to be removed prior to demolition.
- To identify other asbestos containing materials that would require compliance with Cal-OSHA asbestos regulations and waste disposal regulations.
- To identify lead containing paints and ceramic tiles that would require removal prior to demolition to comply with Cal-EPA hazardous waste disposal regulations. The evaluation of paints and ceramic tiles was not intended to be either a lead inspection or a lead hazard evaluation as defined by California Department of Health Services (17CCR35001 *et seq*).

2.0 Summary of Investigation

Asbestos and Lead Containing Materials Inspection Methods

The inspection consisted of a walkthrough of accessible areas at the site to identify and sample suspect ACM and lead containing materials. Mr. Richard Rodriguez, with Facility Maintenance, escorted Acumen through the building. Acumen's standard survey protocol is to conduct asbestos inspections in three steps: conducting a review of existing building survey records and/or drawings; physically surveying structures; and documenting our findings in a written report format.

Asbestos bulk samples are physically collected by taking a small section of the suspect asbestos material using hand tools. Paints are manually collected from architectural components such as walls, and trim. Paints on mechanical components or fixtures are not typically sampled unless requested. Paints are sampled by physically collecting a paint chip and placing the sample into a clean container.

Acumen noted significant factors of suspect ACM including conditions, homogeneity, locations, quantity, potential for damage or disturbance, and friability. Friability describes the ability of a material to be crushed or crumbled, when dry, into a powder using hand pressure. Where suspect materials were noted, bulk samples were collected. At Building 23, Acumen collected thirty (30) discrete samples of suspect ACM and thirteen (13) lead samples from paint coatings and ceramic tiles.

Samples were given a unique identification number and submitted with our chain of custody forms to Micro Analytical Laboratories, Inc. (Emeryville, CA) for analysis. Micro Analytical Laboratories, Inc. is accredited to analyze asbestos air samples. Micro holds the National Institute of Standards and Technology (NIST)/ National Voluntary Laboratory Accreditation Program (NVLAP) accreditation for Transmission Electron Microscopy (TEM) (ISO/IEC 17025:1999); Polarized Light Microscopy (PLM) (EPA-600/M4-

82-020, ISO 9002:1994) Airborne Asbestos, Lab Code #101872-0 and; NIST (NVLAP), Bulk Asbestos, Lab Code 101872-0; and AIHA ELLAP Industrial Hygiene Laboratory Program, #101768.

Lead samples were analyzed by Flame Atomic Absorption (Flame AA) in accordance with EPA method 3050A. Asbestos samples were analyzed by polarized light microscopy (PLM) per U. S. Environmental Protection Agency (EPA) method 600/R-93/116, 1993. The laboratory reports are shown as Appendix A. This analytical method identifies the type(s) of asbestos present in the sample and its corresponding percent concentration(s). The reliable limit of quantification of this method is 1% asbestos by volume.

3.0 Document Review

Acumen reviewed previous documents of the building provided to us by VA PAHCS. A survey re-inspection for Building 23 entitled "Asbestos Re-evaluation for Palo Alto Veterans Hospital" was conducted by Kellco of Hayward, CA on October 1999-January 2000, and dated Februrary 10, 2000. This reevaluation included 15 buildings at the facility including Building 23. The Kellco inspector was Gerald Martin, CAC #94-1354, and the Kellco project manager was Ms. Bonnie Kellogg. However, the report provided to us was not signed by a CAC (Ms. Kellogg) as is required by 8 CCR 1529. A copy of the report is provided in Appendix B.

The stated purpose of the re-inspection was to evaluate known ACM that was still in place and identify suspect ACM that may have not been include in the original survey. Kellco stated that they preformed a walk through, visual inspection only to update the previous survey. It was implied that "Weston" conducted the previous survey as indicated by the Kellco table title headings and their attachment content list. However, the previous report and survey date was unavailable to us as there were no attachments provided. Sampling was not part of the Kellco re-inspection service contract. Kellco stated that their scope of work was to conduct a room-by-room inspection, update the drawings, and provide a Microsoft Access database. However, Acumen noted some data gaps with Kellco's report as there were no sample or material location drawings, room by room inspection notes, analytical reports, chains of custody, or database information showing the specific locations of previously identified and suspect ACM. Specific identifying material colors, patterns, type, sizes, and layers were generally not described. Acumen has made repeated requests to VA PAHCS for additional information but none was provided. Based upon our observations and previous data regarding asbestos content, TSI on pipes is presumed to contain asbestos.

The ACM materials listed as being still in place were presented in a table format along with materials from other buildings on site. Upon review of this table Acumen noted two columns which appear to describe the material and sample location. The column headings are "NEW designation" and "OLD designation". It is presumed that Kellco made the "NEW" designation. The descriptions under these headings such as "23A106" is interpreted as possibly meaning that the material is from Building 23, Room 106. Acumen noted that there was no variance between the old and new designations. A copy of the re-inspection document is provided in Appendix B.

We interpreted the following materials from the tables as being Non-Asbestos Containing material(s).

- *"CT 1x1" (1' x 1' Acoustical Ceiling Tile) (This materials was not observed by Acumen)*

We interpreted the following material from the tables as being Asbestos Containing Materials

- *"Pipes and elbows 23A106" (TSI on straight pipe runs and elbows) outer diameter size not listed*

- *"Floor Tile 9X9 23A106A 23A106B" (9" vinyl Floor Tile) size and color not listed. This material was not observed by Acumen.*
- *"Pipes Fittings and Valves 23A10" (TSI on pipe fittings and valves - outer diameter not listed)*

4.0 Findings and Discussion

Building 23 is a one-story structure built in circa 1960. The building is constructed of concrete and brick with steel framing on a concrete slab on grade foundation. The building has approximately 18,200 square feet of total floor space. The building is designed as a recreational center with a therapeutic pool, basketball court, locker rooms and administration offices. The basketball court was recently remodeled. The building interior is finished with painted sheetrock, vinyl floor tiles, ceramic tiles, wood flooring, carpet, and 2x4' drop in acoustical ceiling panels.

The building exterior is unpainted brick and concrete (Photos 1 and 2). Window mounted air conditioners provided have been installed at offices. Hot water is provided from the basement boiler room. This boiler room also provides hot water and steam to other facility buildings. TSI in the boiler room was found to have been replaced with fiberglass insulation. Based upon our observations the TSI in the boiler room was originally asbestos containing but has been apparently abated and replaced with fiberglass insulation. No documentation of abatement was provided to Acumen. A steam tunnel spur connects the main steam tunnel to Building 23. The spur opening is found at the boiler room. The 5" and 12" outer diameter pipes at this location are fiberglass with ACM tar paper jacketing.

TSI on pipes at the basketball court was found to be a mix of original ACM TSI and replaced fiberglass insulation. Acumen accessed the basketball court cat-walk via a wall mounted ladder to inspect TSI on pipes located along the catwalk. These pipes are associated with HVAC handling units also mounted at the cat walk level. Pipes mounted at this upper ceiling level are presumed to be ACM (PACM) (see photos 5 and 6). At first glance it appears that these pipes are only insulated with fiberglass. However, the original ACM pipe insulation (calcium silicate material) is located underneath a retrofitted jacket of fiberglass insulation.

TSI on pipes mounted horizontally, along the lower (approximately 10 foot level) north and south walls of the basketball court were found to be fiberglass only. Presumed ACM pipe insulation (calcium silicate) was also observed at the pool. This material is located at an elevated platform adjoining an HVAC unit. The insulation has suffered minor damage but no debris was observed.

Given the age of the building and the known original installation asbestos TSI, ACM pipe insulation is likely concealed within wall and ceiling cavities. It is also possible that ACM TSI is present under floors routed from the Boiler room. Destructive methods will need to be employed to assess such wall and ceiling cavities. Demolition often reveals sections of such materials that will need to be removed prior to continuing demolition activities.

Acumen collected samples of various suspect ACM at the building and determined that ACM is present as reported by the lab. Sample (SMG2801-113008-19A, 19B and 19C) exterior window putty was reported to be <1% chrysotile asbestos or Trace asbestos (Photo 1).

Sample (SMG2801-113008-20A) black tar paper wrap (jacketing) over fiberglass pipe insulation was reported 30% chrysotile asbestos. This material is located in a 25-foot long spur from the main steam tunnel, and is accessed at the Building 23 Boiler Room. The tar paper jacketing is found on both 5" and 12" outer diameter pipes (Photos 9 and 10).

Based upon our inspection of the main steam tunnel (as accessed at the building exterior grate access), supply and return lines include 5" outer diameter pipes that are insulated with presumed asbestos containing (PACM) calcium silicate and an ACM tar paper jacketing. Tar paper jacketing is found on other pipes within the main steam tunnel and is assumed to contain asbestos. All other suspect ACM materials were reported 'None Detected'.

In addition to asbestos samples, Acumen collected representative samples for lead of paints and ceramic tile. Lead concentrations are reported in both weight percent and mg/Kg for paints and in mg/Kg for ceramic tiles. Four (4) of the six (6) ceramic tiles sampled were reported to contain lead in levels ranging from 87 up to 10,055 mg/Kg (ppm). Three (3) of the seven (7) paints sampled at Building 48 were reported to contain lead in levels ranging from 109 to 785 mg/Kg (SMG 2801-113008-01Pb, 03Pb, and 12Pb).

Based on our inspection it appears that asbestos abatement (as ACM TSI removal) has occurred at the Boiler Room and at the basketball court lower pipe runs, possibly since the Kellco report. Additional related activities appear to have included retrofitting fiberglass jacketing over the existing ACM TSI pipe runs at the upper elevations of the basketball court. No information regarding remodeling or abatement activities were made available to Acumen. Acumen recommends providing abatement documentation for review and conducting additional inspections using destructive means with supplemental bulk sampling of materials after the building is vacated.

Please refer to the Attachment A for sample chain of custody forms and analytical results. Site photographs are attached in Appendix C. Sample location drawings are included in Appendix D.

5.0 Summary of Findings

5.1 Asbestos Related Findings

The results of this investigation sampling determined that ACM materials are present at the following locations. These materials must be removed prior to demolition.

- Window Putty at building exterior
  Quantity = 500 square feet
- Tar paper wrap over fiberglass pipe insulation 5" and 12" outer diameter (in steam tunnel spur to Building 23)
  Quantity = 50 linear feet

The following materials are classified as Presumed Asbestos Containing Materials. These materials must be removed prior to demolition.

- Roofing materials such as built up asphalt roofs and penetration mastics
- Fire rated door core insulation
- Pipe insulation at pool, at small cat walk HVAC unit, 4' to 6" outer diameter (minor damage)
  Quantity = 10 linear feet
- Pipe insulation at basketball court cat walk elevation 4' to 6" outer diameter
  Quantity = 400 linear feet
- 5" outer diameter pipe thermal system insulation with tar paper jacketing, in main steam tunnel
- Pipe thermal system insulation in wall and ceiling cavities

5.2 Lead Related Findings

The results of this investigation determined that lead containing or lead based materials are present as the following. Lead containing ceramic tiles must be removed prior to demolition.

Ceramic Tiles

- 5" Gray colored Ceramic tile at cove base, Room 103 restroom
  Quantity = 10 square feet
- 4" Light yellow Ceramic tile on walls up to 4 feet height, Room 103 restroom and presumed to be lead containing also at Women' Locker Room restroom room 101
  Quantity = 120 total square feet
- 4" Light green Ceramic tile on walls, up to 4 feet height, Room 102 janitor's closet
  Quantity = 90 square feet
- 6" Cream colored Ceramic tile on wall coves, swimming pool area
  Quantity = 300 linear feet

Paints

- Off white paint in hallways on concrete walls
  Quantity = 1,500 square feet
- Gray paint in hallways on concrete floors and coves
  Quantity = 800 square feet
- White paint on exterior concrete walls
  Quantity = 28,000 square feet

6.0 Other Hazardous Materials

Acumen assessed fluorescent light tubes at the building for Universal Hazardous Wastes. There are approximately 500 fluorescent tubes installed at the building. Acumen assessed representative fluorescent light tube ballasts for labeling that would indicate no PCBs are contained in the ballasts. Acumen observed that six (3) of the light ballasts inspected had labeling identifying the ballasts as not containing PCBs. Mr. Rodriguez explained to us that facilities maintenance has a policy of replacing old ballasts with new, Non-PCB ballasts when old ballasts burn out. As such, older ballasts (which may contain PCBs) and that are still working, may be in place. The abatement contractor will need to assess ballasts and segregate those without the "No PCB" labeling for proper storage and disposal.

The Department of Toxic Substances Control (DTSC) has adopted new regulations (SB 20 Electronic Waste Recycling Act) for the handling of universal waste or E-Waste. This category is a subset under all hazardous wastes. Universal wastes encompass a variety of electronic devices (including fluorescent lamps, light ballasts, mercury thermostats, cathode ray tubes, batteries, etc.) that usually contain mercury, lead, cadmium, chromium and copper. These materials are considered toxic and are banned from landfill disposal. These materials must be collected and recycled prior to demolition. Fluorescent light tubes should be carefully removed without breaking and packaged for recycling.

7.0 Recommendations

1. Acumen noted that there are fire-rated doors with suspect ACM cores. Acumen did not collect fire door core samples as this would damage fire doors and/or require the dismantling of doors. It is industry standard to inspect and collect fire door samples after the building is vacated.

2. Acumen did not collect roof samples as part of this scope of work. Roofing samples will need to be collected prior to demolition. It is recommended to wait until the building is unoccupied as we cannot guarantee that patches will not leak. Acumen can retain a professional roofing contractor who can guarantee roof patches.

3. Prior to demolition, it is recommended to use a California Department of Occupational Safety and Health (DOSH) registered asbestos contractor with CDPH certified lead trained workers to conduct the removal of lead containing ceramic tiles and asbestos containing materials.

4. It is recommended to segregate the lead containing ceramic tiles removed from other wastes. The waste stream will need to be waste characterized for lead by the California Waste Extraction Test (WET) testing methods.

5. It is recommended that removal specifications for the TSI be prepared by a certified asbestos consultant. Following abatement work it is recommended to collect asbestos clearance samples.

6. Removal costs vary based upon factors such as accessibility, material content, and waste disposal costs. It is recommended to consult with multiple abatement contractors to develop a range of accurate removal costs and options.

7. Asbestos Containing Thermal system insulation (TSI) is frequently present within wall and ceiling cavities. If additional TSI is observed during the course of demolition, these suspect materials must be presumed to be ACM until testing confirms otherwise. Contractors must be made aware that ACM TSI may be present under fiberglass insulation as observed at the basketball court. It is recommended to conduct an inspection of the building ceilings after the building is vacated and the ceiling panels can be opened for full access and view.

8. None of the lead containing paints observed were found to be deteriorated. Therefore no recommendations are made to stabilize paints (that are deteriorated) or remove lead hazards. Contractors who disturb paints at the buildings need to be informed that lead is present and/or presumed. Lead safe work practices should be implemented by the demolition contractor. Cal-OSHA's lead in construction standard (Title 8 CCR1532.1) requires a contractor to develop and implement a lead compliance plan and use lead safe construction practices. These issues are commonplace since these Cal-OSHA rules have been in effect since 1992 and since lead containing paints are commonly found at buildings constructed prior to 1978.

Please feel free to contact us if you have any questions or comments regarding this report. Thank you for the opportunity to be of service.

Limitations

Reasonable effort was made by Acumen personnel to locate and sample suspect materials. However, for any facility or building, the existence of unique or concealed ACM or lead containing materials and debris is a possibility. Acumen does not warrant, guarantee, or profess to have the ability to locate or identify all ACM/ACCM or other hazardous materials at this facility. The intent of this report is for use in planning for renovation and partial exterior and interior demolition. All quantities of materials identified in this report should be field verified by contractors prior to submitting bids to perform abatement work. Additional confirmatory sampling and detailed quantification may be required if the demolition uncovers additional suspect materials. The report is not intended as a CDPH or HUD defined “lead hazard evaluation” or “lead inspection”.

Acumen provided these services consistent with the level and skill ordinarily exercised by members of the profession currently providing similar services under similar circumstances at the time the services were provided. This statement is in lieu of other statements either expressed or implied. This report is intended for the sole use of The SmithGroup. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of certain other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user.

As with all such assessments, the results of the sampling represent conditions found on the date of the survey and may not represent conditions found at other times. Additionally, this assessment was limited with respect to the specific parameters indicated above and should not be construed to be a comprehensive evaluation or a definitive representation of all conditions within the facility. The information presented in this report is intended to be used as a guide to evaluate the need for materials removal, further investigation or the need for modifications to the processes or procedures surveyed.

The client should recognize that all testing and remediation methods have reliability limitations, no method or number of sampling locations can guarantee that a condition will be discovered within the performance of the services as authorized by the client. Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, conclusions, and recommendations expressed in this report are based only on conditions that were observed during Acumens’ inspection of the site.

Table 1

Asbestos Containing Materials
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Results [1]	BAAQMD [2]	EQ [3]	Sample No.
Building exterior	Window putty	<1% CH	Cat II - NF	500 total sf	SMG2801-11308-19A
Steam Tunnel accessed in Boiler Room	Black tar paper wrap over F/G insulated pipes in steam tunnel	Tar paper wrap: 30% CH	Cat II - NF	5" OD = 25 lf 12" OD = 25 lf	SMG2801-11308-20A
Roof	Built up asphalt roofing and penetration mastics	Assumed	Cat I - NF	18,500 sf	N/A
Utility Room Doors	Fire rated door core insulation	Assumed	RACM	Not quantified	N/A
Gym and Pool	Pipe insulation	Assumed	RACM	410 linear feet	N/A
Wall/Ceiling Cavities	Pipe insulation	Assumed	RACM	Not quantified	N/A
Steam Tunnel	5" outer diameter pipe thermal system insulation with tar paper jacketing	Assumed	RACM	Not quantified	N/A

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile asbestos and ND indicates that asbestos was not detected.
2. BAAQMD indicates classification into friable (RACM) or non-friable (Cat I or Cat II) ACM.
3. EQ means estimated quantity either in square feet (sf) or linear feet (lf).
4. OD means the outer diameter of a pipe

Table 2

Non-Asbestos Containing Materials
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Results [1]	Sample No.
Basketball court deck west (at catwalk level)	HVAC duct woven canvas wrap over fiberglass	Canvas wrap: ND Fiberglass insulation: ND Paint: ND Glue: ND	SMG2801-11308-01A
Basketball court deck east (at catwalk level)	HVAC duct woven canvas wrap over fiberglass	Canvas wrap: ND Fiberglass insulation: ND Paint: ND Glue: ND	SMG2801-11308-01B
Basketball court deck west (at catwalk level)	HVAC duct woven canvas wrap over fiberglass	Canvas wrap: ND Fiberglass insulation: ND Paint: ND Glue: ND	SMG2801-11308-01C
Basketball court	4" yellow cove mastic	Yellow mastic: ND Compound: ND	SMG2801-11308-02A
106A storage room wall	Plaster layers	Plaster: ND Skim coat: ND Paint: ND	SMG2801-11308-03A
Hallway fire closet wall	Plaster layers	Plaster: ND Skim coat: ND Paint: ND	SMG2801-11308-03B
Hallway wall	Plaster layers	Plaster: ND Skim coat: ND Paint: ND	SMG2801-11308-03C
106A	12" white with black specks vinyl floor tile and yellow mastic	Vinyl floor tile: ND Yellow mastic: ND	SMG2801-11308-04A

Footnote

1. All samples analyzed by polarized light microscopy and reported as not containing detectable amounts of asbestos. ND indicates that asbestos was not detected.

Table 2 (continued)

Non-Asbestos Containing Materials
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Results [1]	Sample No.
106A	Gray floor tile with brown mastic under 12" white with black specks vinyl floor tile and yellow mastic	Floor tile: ND Brown mastic: ND	SMG2801-11308-05A
105	12" yellow mottled vinyl floor tile and amber mastic	Vinyl floor tile: ND Amber mastic: ND	SMG2801-11308-06A
109	2x4' drop-in acoustical ceiling panels with small random holes	ND	SMG2801-11308-07A
109	2x4' drop-in acoustical ceiling panels with small random holes	ND	SMG2801-11308-07B
109	2x4' drop-in acoustical ceiling panels with small random holes	Ceiling tile: ND White coating: ND	SMG2801-11308-07C
Restroom 103	Mortar on 5" ceramic tile gray cove	Ceramic tile: ND Mortar: ND	SMG2801-11308-08A
Restroom 103	Grout on 5" ceramic tile gray cove	ND	SMG2801-11308-09A
103	Grout on 5" ceramic tile on walls	ND	SMG2801-11308-10A
103	Mortar on 4" ceramic tile on walls	Light gray mortar: ND Dark gray mortar: ND	SMG2801-11308-11A
Janitor's closet room 102	Grout on 4" ceramic tile	ND	SMG2801-11308-12A
Janitor's closet room 102	Mortar on 4" ceramic tile	White mortar: ND Gray mortar: ND	SMG2801-11308-13A
Steps at swimming pool	Grout on 1” beige ceramic tile	ND	SMG2801-11308-14A

Footnote

1. All samples analyzed by polarized light microscopy and reported as not containing detectable amounts of asbestos. ND indicates that asbestos was not detected.

Table 2 (continued)

Non-Asbestos Containing Materials
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Results [1]	Sample No.
Steps at swimming pool	Mortar on 1" beige ceramic tile	Ceramic tile: ND Dark gray mortar: ND Light gray mortar: ND	SMG2801-11308-15A
Swimming pool southwest corner	Sheetrock composite	Sheetrock: ND Joint compound: ND Paint: ND	SMG2801-11308-16A
Swimming pool northeast	Sheetrock composite	Sheetrock: ND Joint compound: ND Paint: ND	SMG2801-11308-16B
Swimming pool west center	Sheetrock composite	Sheetrock: ND Joint compound: ND Paint: ND	SMG2801-11308-16C
Swimming pool southwest	Grout on 6" cream ceramic tile on cove base	Grout: ND	SMG2801-11308-17A
-	Mastic	Mastic: ND	SMG2801-11308-18A

Footnote

1. All samples analyzed by polarized light microscopy and reported as not containing detectable amounts of asbestos. ND indicates that asbestos was not detected.

Table 3

Summary of Ceramic Tile Lead Results
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Result [1]	Sample No.
Locker 100	6x11' light yellow ceramic wall tiles	<9.7	SMG2801-11308-04PB
Restroom	5" gray ceramic tile at cove	10,055	SMG2801-11308-06PB
Restroom 103 wall up to 4'	4" ceramic tile	9,212.4	SMG2801-11308-07PB
Janitor's closet 102	4" ceramic wall tile	8,292.5	SMG2801-11308-08PB
Swimming pool steps	1' beige ceramic floor tile	<9.7	SMG2801-11308-09PB
Swimming pool southwest	6" ceramic tile cream on coves	87	SMG2801-11308-10PB

Footnote

1. Results were analyzed by Flame Atomic Absorption Spectrometry EPA Methods 3054A and 7420 and are shown in milligrams per kilograms (mg/Kg) or parts per million (ppm).

Table 4

Summary of Lead Paint Results
VA Hospital
Building 23
Palo Alto, CA

November 3, 2008

Location	Material	Result [1]	Sample No.
Hall at restroom 103	Off-white paint concrete wall	619	SMG2801-11308-01PB
Basketball court west	Off-white paint on concrete column and walls	<60	SMG2801-11308-02PB
Hallways	Gray paint on concrete floors and cove	785	SMG2801-11308-03PB
Room 110 lower	Cream paint on floors and cove	<73	SMG2801-11308-05PB
Swimming pool at southwest	Institutional green paint on sheetrock wall	<76	SMG2801-11308-11PB
Exterior	Off-white paint on concrete	109	SMG2801-11308-12PB
Locker room	Off-white paint on walls	<74	SMG2801-11308-13PB

Footnote

1. Results were analyzed by Flame Atomic Absorption Spectrometry EPA Method 7420 and are shown in milligrams per kilograms (mg/kg) or parts per million (ppm). Please refer to the lab reports for weight percent as needed.

Appendix A

Laboratory Reports

Palo Alto Veterans Administration Hospital
Building 23
Palo Alto, CA

November 3, 2008

Acumen Project No SMG 2801B

Prepared For:

SmithGroup/The Design Partnership Associate
301 Battery Street, 7th floor
San Francisco, CA

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-01A** Micro: 118017-01 Analyst: DA **HVAC DUCT WOVEN CANVAS WRAP OVER FIBERGLASS BASKETBALL COURT DECK - WEST**	**CANVAS WRAP: NONE DETECTED** **FIBERGLASS INSULATION: NONE DETECTED** **PAINT: NONE DETECTED** **GLUE: NONE DETECTED**	20 % CELLULOSE 20 % FIBROUS GLASS Matrix Type: SYNTHETIC MATERIAL
Client: **SMG2801-11308-01B** Micro: 118017-02 Analyst: DA **HVAC DUCT WOVEN CANVAS WRAP OVER FIBERGLASS BASKETBALL COURT DECK - EAST**	**CANVAS WRAP: NONE DETECTED** **FIBERGLASS INSULATION: NONE DETECTED** **PAINT: NONE DETECTED** **GLUE: NONE DETECTED**	20 % CELLULOSE 20 % FIBROUS GLASS Matrix Type: SYNTHETIC MATERIAL
Client: **SMG2801-11308-01C** Micro: 118017-03 Analyst: DA **HVAC DUCT WOVEN CANVAS WRAP OVER FIBERGLASS BASKETBALL COURT DECK - WEST**	**CANVAS WRAP: NONE DETECTED** **FIBERGLASS INSULATION: NONE DETECTED** **PAINT: NONE DETECTED** **GLUE: NONE DETECTED**	20 % CELLULOSE 20 % FIBROUS GLASS Matrix Type: SYNTHETIC MATERIAL
Client: **SMG2801-11308-02A** Micro: 118017-04 Analyst: DA **4" COVE MASTIC - YELLOW BASKETBALL COURT**	**MASTIC (YELLOW): NONE DETECTED** **COMPOUND: NONE DETECTED**	Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: **SMG2801-11308-03A** Micro: 118017-05 Analyst: DA **PLASTER LAYERS 106A STG. ROOM**	**PLASTER: NONE DETECTED** **SKIM COAT: NONE DETECTED** **PAINT: NONE DETECTED**	2 % CELLULOSE Matrix Type: GYPSUM ROCK FRAGMENTS

Technical Supervisor: FOR: Gamini Ranatunga, Ph.D. 11/6/2008 Date Reported

Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 μm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM is recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC) Codes: A1/A2 = results within acceptance limits; F = false positive or negative corrected, reanalysis within acceptance limits; M = Method error resolved (for trace amounts); R = Other, resolved after review. Accreditation: NIST / NVLAP (Lab Code 101872-0). CA ELAP Certification #1037. EPA 1993 method is based on EPA Interim Method (1982), with improved analytical techniques. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced without the approval of Micro Analytical Laboratories, Inc., shall not be reproduced except in full, and pertains only to the samples analyzed. ND = NO ASBESTOS DETECTED.

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-03B** Micro: 118017-06 Analyst: DA GR **PLASTER LAYERS** **HALLWAY - FIRE CLOSET**	**PLASTER: NONE DETECTED** **SKIM COAT: NONE DETECTED** **PAINT: NONE DETECTED**	2 % CELLULOSE Matrix GYPSUM Type: ROCK FRAGMENTS QC: A2
Client: **SMG2801-11308-03C** Micro: 118017-07 Analyst: DA **PLASTER LAYERS - HALLWAY**	**PLASTER: NONE DETECTED** **SKIM COAT: NONE DETECTED** **PAINT: NONE DETECTED**	2 % CELLULOSE Matrix GYPSUM Type: ROCK FRAGMENTS
Client: **SMG2801-11308-04A** Micro: 118017-08 Analyst: DA **12" VFT WHITE WITH BLACK SPECKS AND YELLOW MASTIC - 106A**	**VFT: NONE DETECTED** **MASTIC (YELLOW): NONE DETECTED**	Matrix CARBONATE Type: SYNTHETIC MATERIAL
Client: **SMG2801-11308-05A** Micro: 118017-09 Analyst: DA **GRAY FLOOR TILES WITH BROWN MASTIC (UNDERNEATH 04A) - 106A**	**FLOOR TILE: NONE DETECTED** **MASTIC (BROWN): NONE DETECTED**	4 % CELLULOSE 1 % FIBROUS GLASS Matrix CARBONATE Type: SYNTHETIC MATERIAL
Client: **SMG2801-11308-06A** Micro: 118017-10 Analyst: DA **12" VFT - YELLOW MOTTLED AMBER MASTIC - 105**	**VFT: NONE DETECTED** **MASTIC (AMBER): NONE DETECTED**	Matrix CARBONATE Type: SYNTHETIC MATERIAL

Technical Supervisor: _____ 11/6/2008
FOR: Gamini Ranatunga, Ph.D. Date Reported

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MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

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Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-07A** Micro: 118017-11 Analyst: DA **2' X 4' DROP IN ACOUSTICAL CEILING PANELS WITH SMALL RANDOM HOLES - 109**	**NONE DETECTED**	60 % FIBROUS GLASS Matrix Type: BINDER GLASS FRAGMENTS
Client: **SMG2801-11308-07B** Micro: 118017-12 Analyst: DA **2' X 4' DROP IN ACOUSTICAL CEILING PANELS WITH SMALL RANDOM HOLES - 109**	**NONE DETECTED**	60 % FIBROUS GLASS Matrix Type: BINDER GLASS FRAGMENTS
Client: **SMG2801-11308-07C** Micro: 118017-13 Analyst: DA **2' X 4' DROP IN ACOUSTICAL CEILING PANELS WITH SMALL RANDOM HOLES - 109**	**CEILING TILE: NONE DETECTED** **COATING (WHITE): NONE DETECTED**	60 % FIBROUS GLASS Matrix Type: GLASS FRAGMENTS SYNTHETIC MATERIAL
Client: **SMG2801-11308-08A** Micro: 118017-14 Analyst: DA **MORTAR ON 5" CERAMIC TILE GRAY COVE - RESTROOM 103**	**CERAMIC TILE: NONE DETECTED** **MORTAR: NONE DETECTED**	Matrix Type: CARBONATE ROCK FRAGMENTS
Client: **SMG2801-11308-09A** Micro: 118017-15 Analyst: DA **GROUT ON ABOVE - RESTROOM 103**	**NONE DETECTED**	2 % CELLULOSE Matrix Type: CARBONATE SYNTHETIC MATERIAL

Technical Supervisor: FOR: Gamini Ranatunga, Ph.D. 11/6/2008 Date Reported

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BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-10A** Micro: 118017-16 Analyst: DA **GROUT ON 4" CERAMIC TILE ON WALLS 103**	**NONE DETECTED**	Matrix Type: CARBONATE
Client: **SMG2801-11308-11A** Micro: 118017-17 Analyst: DA GR **MORTAR ON 4" CERAMIC TILE ON WALLS - 103**	**MORTAR (LIGHT GRAY): NONE DETECTED** **MORTAR (DARK GRAY): NONE DETECTED**	1 % CELLULOSE Matrix Type: CARBONATE, ROCK FRAGMENTS QC: A2
Client: **SMG2801-11308-12A** Micro: 118017-18 Analyst: DA **GROUT ON 4" CERAMIC TILE JANITOR'S CLOSET - ROOM 102**	**NONE DETECTED**	Matrix Type: CARBONATE, SYNTHETIC MATERIAL
Client: **SMG2801-11308-13A** Micro: 118017-19 Analyst: DA **MORTAR ON 4" CERAMIC TILE JANITORS CLOSET - ROOM 102**	**MORTAR (WHITE): NONE DETECTED** **MORTAR (GRAY): NONE DETECTED**	Matrix Type: CARBONATE, ROCK FRAGMENTS
Client: **SMG2801-11308-14A** Micro: 118017-20 Analyst: DA **GROUT ON 1" BEIGE CERAMIC TILE STEPS AT SWIMMING POOL**	**NONE DETECTED**	Matrix Type: CARBONATE, ROCK FRAGMENTS

Technical Supervisor: _____ 11/6/2008
for: Gamini Ranatunga, Ph.D. Date Reported

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BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/05/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-15A** Micro: 118017-21 Analyst: DA **MORTAR ON 1" BEIGE CERAMIC TILE** **STEPS AT SWIMMING POOL**	**CERAMIC TILE: NONE DETECTED** **MORTAR (DARK GRAY): NONE DETECTED** **MORTAR (LIGHT GRAY): NONE DETECTED**	Matrix Type: ROCK FRAGMENTS
Client: **SMG2801-11308-16A** Micro: 118017-22 Analyst: DA **SHEETROCK COMPOSITE** **SWIMMING POOL** **SOUTHWEST CORNER**	**SHEETROCK: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **PAINT: NONE DETECTED**	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - GYPSUM
Client: **SMG2801-11308-16B** Micro: 118017-23 Analyst: DA **SHEETROCK COMPOSITE** **SWIMMING POOL** **NORTHEAST**	**SHEETROCK: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **PAINT: NONE DETECTED**	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - GYPSUM
Client: **SMG2801-11308-16C** Micro: 118017-24 Analyst: DA GR **SHEETROCK COMPOSITE** **SWIMMING POOL** **WEST CENTER**	**SHEETROCK: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **PAINT: NONE DETECTED**	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: MIXED CARBONATE - GYPSUM QC: A2
Client: **SMG2801-11308-17A** Micro: 118017-25 Analyst: DA **GROUT ON 6" CERAMIC TILE** **CREAM ON COVE** **SWIMMING POOL - SOUTHWEST**	**GROUT: NONE DETECTED**	Matrix Type: CARBONATE SYNTHETIC MATERIAL

Technical Supervisor: _____ 11/6/2008
FOR: Gamini Ranatunga, Ph.D. Date Reported

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MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:
VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118017**
Total Samples 30
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/05/2008

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: **SMG2801-11308-18A** Micro: 118017-26 Analyst: DA **MASTIC**	**MASTIC: NONE DETECTED**	Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: **SMG2801-11308-19A** Micro: 118017-27 Analyst: DA **WINDOW PUTTY** **BUILDING EXTERIOR** **SOUTHWEST**	**< 1% CHRYSOTILE ASBESTOS**	Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: **SMG2801-11308-19B** Micro: 118017-28 Analyst: DA **WINDOW PUTTY** **BUILDING EXTERIOR** **WEST CENTER**	**< 1% CHRYSOTILE ASBESTOS**	Matrix Type: CARBONATE SYNTHETIC MATERIAL
Client: **SMG2801-11308-19C** Micro: 118017-29 Analyst: DA GR **WINDOW PUTTY** **BUILDING EXTERIOR** **NORTHWEST**	**< 1% CHRYSOTILE ASBESTOS**	Matrix Type: CARBONATE SYNTHETIC MATERIAL QC: A1
Client: **SMG2801-11308-20A** Micro: 118017-30 Analyst: DA **BLACK TAR PAPER WRAP** **OVER F/G INSULATED PIPES** **IN STEAM TUNNEL - 23**	**TAR PAPER WRAP: 30% CHRYSOTILE ASBESTOS**	3 % CELLULOSE 1 % FIBROUS GLASS Matrix Type: TAR

Technical Supervisor: _____ 11/6/2008
FOR: Gamini Ranatunga, Ph.D. Date Reported

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ACUMEN
INDUSTRIAL HYGIENE INC
1032 IRVING ST. - BOX 922 SAN FRANCISCO CA 94122
TEL 415 242 6060 FAX 415 242 6006
WWW.ACUMEN-IH.COM

BULK CHAIN OF CUSTODY FORM

11807

Project No. SMG 2801

Job Site: VA Palo Alto

Location: Building 23

Sample Date: 11/3/08

Laboratory:

Turnaround Time: (Normal) / 24 Hour / Rush

Sampler: Mark T. Schmidt

	Sample No.	Description/ Location	Analysis
01	SMG 2801 11-3-08 01A	HVAC DUCT WOVEN CANVAS WRAP OVER FIBERGLASS, BASKETBALL COURT DECK	PLM.
02	01B	WEST	
		EAST	
03	01C	WEST	
04	02A	4" COVE MASTIC, YELLOW, BASKETBALL COURT	
05	03A	PLASTER LAYERS 106A STG RM.	
06	03B	HALLWAY FIRE CLOSET	
07	03C	HALLWAY.	
08	04A	12" VFT WHITE WITH BLACK & SPECKS AND YELLOW MASTIC 106A	
09	05A	GRAY FLOOR TILES WITH BROWN MASTIC (UNDERNEATH 04A), 106A.	
10	06A	12" VFT, YELLOW MOTTLED AMBER MASTIC, Rm 105	

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

Sent by:	Received by:
Date sent: 11/3/08	Date received: 11.4.08 15:14

Sent via Federal Express Air Bill:

Hand delivered

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INDUSTRIAL HYGIENE INC
1032 IRVING ST. - BOX 922 SAN FRANCISCO CA 94122
TEL 415 242 6060 FAX 415 242 6006
WWW.ACUMEN-IH.COM

BULK CHAIN OF CUSTODY FORM

11/8017

Project No. SMG 2801

Job Site: VA Palo Alto

Location: Building 23

Sample Date: 11/3/08

Laboratory: MICRO

Turnaround Time: (Normal) / 24 Hour / Rush

Sampler: Mark T. Schmidt

	Sample No.	Description/ Location	Analysis
11	SMG 2801 11-3-08 07A	2'X4' DROP-IN ACOUSTICAL CEILING PANELS, WITH SMALL RANDOM HOLES 109	PLM.
12	07B	109	
13	07C	109	
14	08A	MORTAR ON 5" CERAMIC TILE GRAY COVE RESTROOM 103	
15	09A	GROUT ON ABOVE " "	
16	10A.	GROUT ON 4" CERAMIC TILE, ON WALLS 103	
17	11A	MORTAR ON " "	
18	12A.	GROUT ON 4" CERAMIC TILE JANITOR'S CLOSET, RM 102	
19	13A	MORTAR ON " "	
20	14A	GROUT ON 1" BEIGE CERAMIC TILE STEPS AT SWIMMING POOL.	

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

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Date sent: 11-4-08	Date received: 11.4.08 15:14

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INDUSTRIAL HYGIENE INC
1032 IRVING ST. - BOX 922 SAN FRANCISCO CA 94122
TEL 415 242 6060 FAX 415 242 6006
WWW.ACUMEN-IH.COM

BULK CHAIN OF CUSTODY FORM

119017

Project No. SMG 2801

Job Site: VA Palo Alto

Location: Building 23

Sample Date: 11/3/08

Laboratory: MICRO

Turnaround Time: (Normal) / 24 Hour / Rush

Sampler: Mara T. Schmidt

	Sample No.	Description/ Location	Analysis
21	SMG 2801 11-3-08 15A	MORTAR ON 1" BEIGE CERAMIC TILE STEPS AT SWIMMING POOL.	PLM
22	16A	SHEETROCK COMPOSITE, SWIMMING POOL, - SW CORNER	
23	16B	NE	
24	16C	WEST CENTER	
25	17A	GROUT ON 6" CERAMIC TILE CREAM ON COVE SWIMMING POOL, SW.	
26	18A	MASTIC ~~ON ABOVE~~ " " (ANALYZE MASTIC ONLY)	
27	19A	WINDOW PUTTY, BUILDING EXTERIOR SW	
28	19B	WEST CENTER	
29	19C	NW.	
30	20A	BLACK TAR PAPER WRAP OVER F/G INSULATED PIPES IN STEAM TUNNEL, 23	

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Sent by:	Received by:
Date sent: 11-3-08	Date received: 11.4.08 15:14

Sent via Federal Express Air Bill:

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MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - FLAME AAS (EPA 7420)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:

VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118018**
Total Samples 7
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

Sample ID	Lead Concentration: Weight Percent	Lead Concentration: mg/kg (ppm)	Reporting Limits
Client: SMG2801-11308-01PB Lab: 118018-01 OFF WHITE PAINT CONCRETE WALL HALL AT RESTROOM 103	0.06%	619	0.01 % 53 mg/kg
Client: SMG2801-11308-02PB Lab: 118018-02 OFFICE WHITE PAINT ON CONCRETE COLUMN AND WALLS BASKETBALL COURT - WEST	< 0.01%	< 60	0.01 % 60 mg/kg
Client: SMG2801-11308-03PB Lab: 118018-03 GRAY PAINT ON CONCRETE FLOORS AND COVE - HALLWAYS	0.08%	785	0.01 % 77 mg/kg
Client: SMG2801-11308-05PB Lab: 118018-04 CREAM PAINT ON FLOORS AND COVE ROOM 110 LOWER	< 0.01%	< 73	0.01 % 73 mg/kg
Client: SMG2801-11308-11PB Lab: 118018-05 INSTITUTIONAL GREEN PAINT ON SHEETROCK WALL - SWIMMING POOL AT SOUTHWEST	< 0.01%	< 76	0.01 % 76 mg/kg

Technical Supervisor: Tess Tagorda 11/4/2008 Analyst: LN

Tess Tagorda, Chemistry Supervisor — Date Reported

AIHA ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by Flame Atomic Absorption Spectrometry (AAS). U.S. EPA SW-846 Method 7420 is used for the instrumental analysis. Nitric acid and hydrogen peroxide digestion procedures are based on ASTM E-1645. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. This report must not be reproduced without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable.

MICRO ANALYTICAL LABORATORIES, INC.

LEAD IN PAINT - FLAME AAS (EPA 7420)

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:

VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118018**
Total Samples 7
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/04/2008

Sample ID	Lead Concentration: Weight Percent	Lead Concentration: mg/kg (ppm)	Reporting Limits
Client: SMG2801-11308-12PB Lab: 118018-06 EXTERIOR PAINT - OFF WHITE ON CONCRETE	0.01%	109	0.01 % 73 mg/kg
Client: SMG2801-11308-13PB Lab: 118018-07 OFF WHITE PAINT ON LOCKER ROOM WALLS	< 0.01%	< 74	0.01 % 74 mg/kg

Technical Supervisor: Tess Tagorda 11/4/2008 Analyst: LN

Tess Tagorda, Chemistry Supervisor — Date Reported

AIHA ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by Flame Atomic Absorption Spectrometry (AAS). U.S. EPA SW-846 Method 7420 is used for the instrumental analysis. Nitric acid and hydrogen peroxide digestion procedures are based on ASTM E-1645. Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. This report must not be reproduced without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable.

ACUMEN
INDUSTRIAL HYGIENE INC
1032 IRVING ST. - BOX 922 SAN FRANCISCO CA 94122
TEL 415 242 6060 FAX 415 242 6006
WWW.ACUMEN-IH.COM

LEAD

BULK CHAIN OF CUSTODY FORM

11908 ~~TBS~~

Project No. SMG 2801 AA PAINT

Job Site: VA PALO ALTO

Laboratory: MICRO

Location: BUILDING 23

Turnaround Time: (Normal) / 24 Hour / Rush

Sample Date: 11/3/08

Sampler: MARK T. SCHMIDT

Sample No.	Description/ Location	Analysis	
SMG 2801 11-3-08 01Pb	OFF WHITE PAINT ON CONCRETE WALL HALL AT RESTROOM, 103	LEAD	01
02Pb	OFF WHITE PAINT ON CONCRETE COLUMN AND WALLS, BASKETBALL COURT, WEST		02
03Pb	GRAY PAINT ON CONCRETE FLOORS AND COVE, HALLWAYS		03
04Pb	6"X11" LIGHT YELLOW, CERAMIC WALL TILES, LOCKER, 100		
05Pb	CREAM PAINT ON FLOORS AND COVE RM 110 LOCKER		04
06Pb	5" CERAMIC TILE, AT COVE, GRAY RESTROOM		
07Pb	4" CERAMIC TILE, PART OF WALL UP TO 4 FEET, RR 103		
08Pb	4" CERAMIC TILE, ON WALLS, JANITOR'S CLOSET ~~RM~~ 102		
09Pb	1" BEIGE, CERAMIC TILE ON FLOORS, AT STEPS, SWIMMING POOL		
10Pb	6" CERAMIC TILE, CREAM ON COVES, SWIMMING POOL, SW		
11Pb	INSTITUTIONAL ~~GREEN~~ GREEN PAINT ON SHEETROCK WALL, SWIMMING POOL @ SW.		05
12Pb	EXTERIOR PAINT, OFF WHITE ON CONCRETE		06
13Pb	OFF WHITE PAINT ON LOCKER ROOM WALLS		07

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

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Date sent: 11/3/08	Date received: 11.4.08 1514

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MICRO ANALYTICAL LABORATORIES, INC.

EPA SW-846 - LEAD TTLC

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:

VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In **118019**
Total Samples 6
Date Sampled 11/03/2008
Date Received 11/04/2008
Date Analyzed 11/07/2008

Sample ID	Lead Concentration (mg/Kg or ppm)	Reporting Limit (mg/Kg or ppm)	Comments
Client **SMG2801-11308-04PB** Micro 118019-01 **6" X 11" LIGHT YELLOW CERAMIC WALL TILES LOCKER 100**	< 9.7	9.7	
Client **SMG2801-11308-06PB** Micro 118019-02 **5" CERAMIC TILE - AT COVE GRAY RESTROOM**	10055	480.2	
Client **SMG2801-11308-07PB** Micro 118019-03 **4" CERAMIC TILE PART OF WALL UP TO 4 FEET RESTROOM 103**	9212.4	480.4	
Client **SMG2801-11308-08PB** Micro 118019-04 **4" CERAMIC TILE - ON WALLS JANITORS CLOSET 102**	8292.5	481.9	
Client **SMG2801-11308-09PB** Micro 118019-05 **1" BEIGE CERAMIC TILE ON FLOORS AT STEPS SWIMMING POOL**	< 9.7	9.7	

Technical Supervisor: Tess Tagorda, Chemistry Supervisor — 11/7/2008 Date Reported — Analyst: AW

AIHA ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by FLAA or ICP in accordance with EPA Methods 3050B for Acid Digestion (SW 846, 1992 edition) and 7420 or 6010 for Analysis (SW-846, 1986 edition). Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. This report must not be reproduced without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million.

MICRO ANALYTICAL LABORATORIES, INC.

EPA SW-846 - LEAD TTLC

1092
Paul Spillane
Acumen Industrial Hygiene, Inc.
1032 Irving Street, #922
San Francisco, CA 94122-2216

PROJECT:

VA PALO ALTO
BUILDING 23
PROJECT NO. SMG2801

Micro Log In	118019
Total Samples	6
Date Sampled	11/03/2008
Date Received	11/04/2008
Date Analyzed	11/07/2008

Sample ID	Lead Concentration (mg/Kg or ppm)	Reporting Limit (mg/Kg or ppm)	Comments
Client SMG2801-11308-10PB Micro 118019-06 6" CERAMIC TILE CREAM ON COVES - SWIMMING POOL SOUTHWEST	87	9.7	

Technical Supervisor: Tess Tagorda, Chemistry Supervisor — 11/7/2008 Date Reported

Analyst: AW

AIHA ELLAP Accredited Laboratory, ID #101768. Samples are analyzed by FLAA or ICP in accordance with EPA Methods 3050B for Acid Digestion (SW 846, 1992 edition) and 7420 or 6010 for Analysis (SW-846, 1986 edition). Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. This report must not be reproduced without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million.

A

ACUMEN
INDUSTRIAL HYGIENE INC
1032 IRVING ST. - BOX 922 SAN FRANCISCO CA 94122
TEL 415 242 6060 FAX 415 242 6006
WWW.ACUMEN-IH.COM

LEAD

BULK CHAIN OF CUSTODY FORM

11905 ~~TTLC~~ TTLC

Project No. SMG 2801

Job Site: VA PALO ALTO

Location: BUILDING 23

Sample Date: 11/3/08

Laboratory: MICRO

Turnaround Time: (Normal) / 24 Hour / Rush

Sampler: MARK T. SCHMIDT

Sample No.	Description/ Location	Analysis
SMG 2801 11-3-08 01Pb	OFF WHITE PAINT ON CONCRETE WALL HALL AT RESTROOM, 103	LEAD
02Pb	OFF WHITE PAINT ON CONCRETE COLUMN AND WALLS BASKETBALL COURT, WEST	
03Pb	GRAY PAINT ON CONCRETE FLOORS AND COVE, HALLWAYS	
04Pb	6"X11" LIGHT YELLOW, CERAMIC WALL TILES, LOCKER, 100	(01)
05Pb	CREAM PAINT ON FLOORS AND COVE RM 110 LOCKER	
06Pb	5" CERAMIC TILE, AT COVE, GRAY RESTROOM	(02)
07Pb	4" CERAMIC TILE, PART OF WALL UP TO 4 FEET, RR 103	(03)
08Pb	4" CERAMIC TILE, ON WALLS, JANITOR'S CLOSET ~~RM~~ 102	(04)
09Pb	1" BEIGE, CERAMIC TILE ON FLOORS, AT STEPS, SWIMMING POOL	(05)
10Pb	6" CERAMIC TILE, CREAM ON COVES, SWIMMING POOL, SW	(06)
11Pb	INSTITUTIONAL ~~GREEN~~ GREEN PAINT ON SHEETROCK WALL, SWIMMING POOL @ SW.	
12Pb	EXTERIOR PAINT, OFF WHITE ON CONCRETE	
13Pb	OFF WHITE PAINT ON LOCKER ROOM WALLS	

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

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Page 1 of 1

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Appendix B

Previous Reports

Palo Alto Veterans Administration Hospital
Building 23
Palo Alto, CA

November 3, 2008

Acumen Project No SMG 2801B

Prepared For:

SmithGroup/The Design Partnership Associate
301 Battery Street, 7th floor
San Francisco, CA

VA Palo Alto - Results of Asbestos Visual Re-evaluation Survey - October 1999-January 2000

Building	Wing	floor	NEW Designation	OLD Designation	Code	Orig Insp	In Place	Quantity	Ccondition	Potential Damage	Suspect
23	A	1	23A101	23A101	CT	☐					☑
23	A	1	23A102	23A102	P	☐					☑
23	A	1	23A102	23A102	WTM	☐					☑
23	A	1	23A102	23A102	FTM	☐					☑
23	A	1	23A104A	23A104A	WTM	☐					☑
23	A	1	23A104A	23A104A	P	☐					☑
23	A	1	23A105	23A105	PE	☐					☑
23	A	1	23A105	23A105	P	☐					☑
23	A	1	23A105	23A105	FT12	☐					☑
23	A	1	23A105	23A105	FTM	☐					☑
23	A	1	23A106	23A106	P	☐					☑
23	A	1	23A106	23A106	CV	☐					☑
23	A	1	23A106	23A106	FT9	☐		260			☑
23	A	1	23A106	23A106	FTM	☐					☑
23	A	1	23A106	23A106	CVM	☐					☑
23	A	1	23A106	23A106	PE	☑	Yes	340			☐
23	A	1	23A106A	23A106A	FT9	☑	Yes	130			☐
23	A	1	23A106A	23A106A	P	☐					☑
23	A	1	23A106A	23A106A	FTM	☐					☑
23	A	1	23A106B	23A106B	P	☐					☑
23	A	1	23A106B	23A106B	FT9	☑	Yes	260			☐
23	A	1	23A106B	23A106B	FTM	☐					☑
23	A	1	23A107	23A107	FTM	☐					☑
23	A	1	23A107	23A107	WTM	☐					☑
23	A	1	23A107	23A107	PFV	☑	Yes	96			☐
23	A	1	23A107	23A107	FL	☐					☑
23	A	1	23A109	23A109	CT	☐					☑
23	A	1	23A109	23A109	WTM	☐					☑
23	A	1	23A109	23A109	P	☐					☑
23	A	1	23A110	23A110	CT	☐					☑

ACM Still in Place*

Site	Building	Wing	Floor	NEW designation	OLD designation	Material	Quantity
PA	7	D	1	7D131	7D131	FLOOR TILE 12X12	275
PA	7	D	1	7D139	7D139	FLOOR TILE 12X12	199
PA	7	F	1	7F124	7F124 LOBBY	FLOOR TILE 12X12	1900
PA	7	F	1	7F124A	7F124 MEN BATH	FLOOR TILE 12X12	
PA	7	F	1	7F124B	7F124 WOMEN BATH	FLOOR TILE 12X12	
PA	23	A	1	23A106	23A106	PIPES & ELBOWS	340
PA	23	A	1	23A106A	23A106A	FLOOR TILE 9X9	130
PA	23	A	1	23A106B	23A106B	FLOOR TILE 9X9	260
PA	23	A	1	23A107	23A107	PIPE FITTING & VALVES	96
PA	44	A	1	44A1	44A1	FLOOR TILE MATIC	500
PA	44	A	1	44A1	44A1	FLOOR TILE 12X12	500
PA	48	A	1	48A100	48A100	FLOOR TILE 12X12	373
PA	48	A	1	48A103	48A103	FLOOR TILE 12X12	182
PA	48	A	1	48A105	48A105	FLOOR TILE 12X12	648
PA	48	A	1	48A110	48A110	FLOOR TILE 12X12	28
PA	48	A	1	48A112	48A112	FLOOR TILE 12X12	195
PA	48	A	1	48A113	48A113	FLOOR TILE 12X12	143
PA	48	A	1	48A118	48A118	FLOOR TILE 12X12	126
PA	48	A	1	48A119	48A119	FLOOR TILE 12X12	28
PA	48	A	1	48A121A	48A121A	FLOOR TILE 12X12	90
PA	48	A	1	48A125	48A125	FLOOR TILE 12X12	664

*Asbestos still in place based on original survey and visual re-inspection October 1999-January 2000. Materials NOT listed on this report should NOT be considered as free from asbestos, but should be tested prior to disturbance using an EPA approved method.

VA Palo Alto - Results of Asbestos Visual Re-evaluation Survey - October 1999-January 2000

Building	Wing	floor	NEW Designation	OLD Designation	Code	Orig Insp	In Place	Quantity	Ccondition	Potential Damage	Suspect
23	A	1	23A110	23A110	WTM	☐					☑
23	A	1	23A110	23A110	P	☐					☑
23	A	1	23AEC	23AEC	P	☐					☑
23	A	1	23AFC	23AFC	P	☐					☑
23	A	1	23AGYM	23AGYM	FL	☐					☑
40	A	1	40A BOILER ROOM	40A BOILER ROOM	P	☐					☑
40	A	1	40A001	40A001	CT	☐					☑
40	A	1	40A001	40A001	CVM	☐					☑
40	A	1	40A001	40A001	WT	☐					☑
40	A	1	40A001	40A001	CV	☐					☑
40	A	1	40A001	40A001	FTM	☐					☑
40	A	1	40A001	40A001	CTM	☐					☑
40	A	1	40A001	40A001	WTM	☐					☑
40	A	1	40A001	40A001	FT12	☐					☑
40	A	1	40A002 CANTEEN	40A002 CANTEEN	FTM	☐					☑
40	A	1	40A002 CANTEEN	40A002 CANTEEN	CV	☐					☑
40	A	1	40A002 CANTEEN	40A002 CANTEEN	FT12	☐					☑
40	A	1	40A002 CANTEEN	40A002 CANTEEN	CVM	☐					☑
40	A	1	40A002 CANTEEN	40A002 CANTEEN	P	☐					☑
40	A	1	40A003	40A003	P	☐					☑
40	A	1	40A004	40A004	CM	☐					☑
40	A	1	40A004	40A004	P	☐					☑
44	A	1	44A1	44A1	FT12	☑	Yes	500			☐
44	A	1	44A1	44A1	FTM	☑	Yes	500			☐
44	A	1	44A1	44A1	P	☐					☑
48	A	1	41A131	41A131	FGM	☐					☑
48	A	1	48A CLOSET 110A		CV	☐					☑
48	A	1	48A CLOSET 110A		CVM	☐					☑
48	A	1	48A CLOSET 110A		P	☐					☑
48	A	1	48A CLOSET 110A		FT12	☐					☑

VA Palo Alto - Results of Asbestos Visual Re-evaluation Survey - October 1999-January 2000

Building	Wing	floor	NEW Designation	OLD Designation	Code	Orig Insp	In Place	Quantity	Ccondition	Potential Damage	Suspect
7	F	1	7F143	7F143	CM	☐					☑
7	F	1	7F143	7F143	CT	☐					☑
7	F	1	7F143	7F143	P	☐					☑
7	F	1	7F143	7F143	CVM	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	CV	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	FTM	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	P	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	CVM	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	FT12	☐					☑
7	F	1	7F143 LOBBY	7F143 LOBBY	CT	☐					☑
7	F	1	7F143A	7F143A	CM	☐					☑
7	F	1	7F143A	7F143A	CT	☐					☑
7	F	1	7F143A	7F143A	CV	☐					☑
7	F	1	7F143A	7F143A	CVM	☐					☑
7	F	1	7F143A	7F143A	P	☐					☑
7	F	1	7F144	7F144	P	☐					☑
7	F	1	7F144	7F144	CVM	☐					☑
7	F	1	7F144	7F144	CM	☐					☑
7	F	1	7F144	7F144	CV	☐					☑
7	F	1	7F144	7F144	CT	☐					☑
23		1	23C1		P	☐					☑
23		1	23C1		CT	☐					☑
23		1	23C1		PNT	☐					☑
23	A	1	23 BASEMENT	23 BASEMENT	PFV	☐					☑
23	A	1	23 BASEMENT	23 BASEMENT	P	☐					☑
23	A	1	23 BASEMENT	23 BASEMENT	PE	☐					☑
23	A	1	23 BASEMENT	23 BASEMENT	T	☐					☑
23	A	1	23A101	23A101	P	☐					☑
23	A	1	23A101	23A101	TRN	☑					☐
23	A	1	23A101	23A101	CVM	☐					☑

Appendix C

Photographs

Palo Alto Veterans Administration Hospital
Building 23
Palo Alto, CA

November 3, 2008

Acumen Project No SMG 2801B

Prepared For:

SmithGroup/The Design Partnership Associate
301 Battery Street, 7th floor
San Francisco, CA

Photo 1

View of building 23 exterior west side with windows and paints

Photo 2

View main hallway with painted floors and walls

[1]SMG 2801B Building 23, December, 2008

Photo 3

View of Room 103 restroom ceramic tiles

Photo 4

View of pool with ceramic tiles (on far steps in background) and at wall coves

Photo 5
View of PACM pipe insulation at cat walk/HVAC areas in basketball court, center

Photo 6
View of PACM pipe insulation at cat walk/HVAC areas in basketball court, at wall ladder

Photo 7
View of fiberglass pipe insulation at lower walls, basketball court

Photo 8
View of presumed lead containing ceramic wall tiles

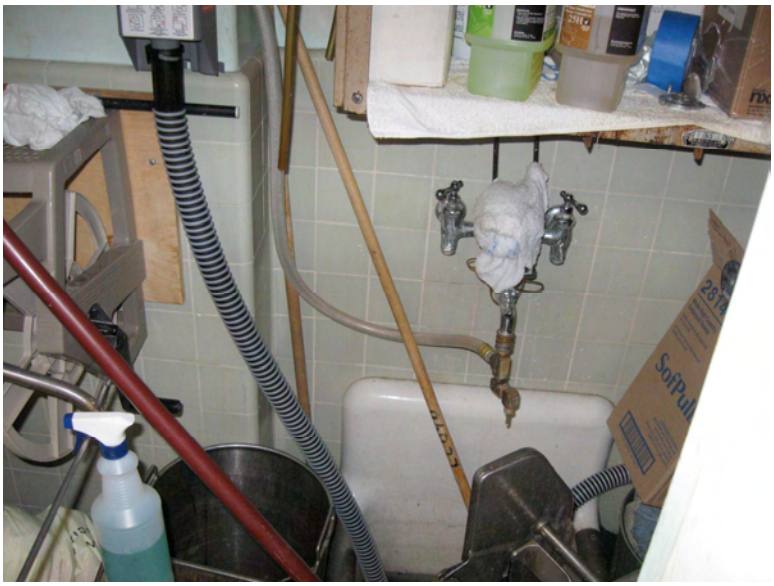


Photo 9
View of lead containing ceramic wall tile at Janitor's closet Room 102

Photo 10
View of ACM black tar paper jacketing over fiberglass insulated pipes in steam tunnel spur

Appendix D

Sample Location Drawings

Palo Alto Veterans Administration Hospital
Building 23
Palo Alto, CA

November 3, 2008

Acumen Project No SMG 2801B

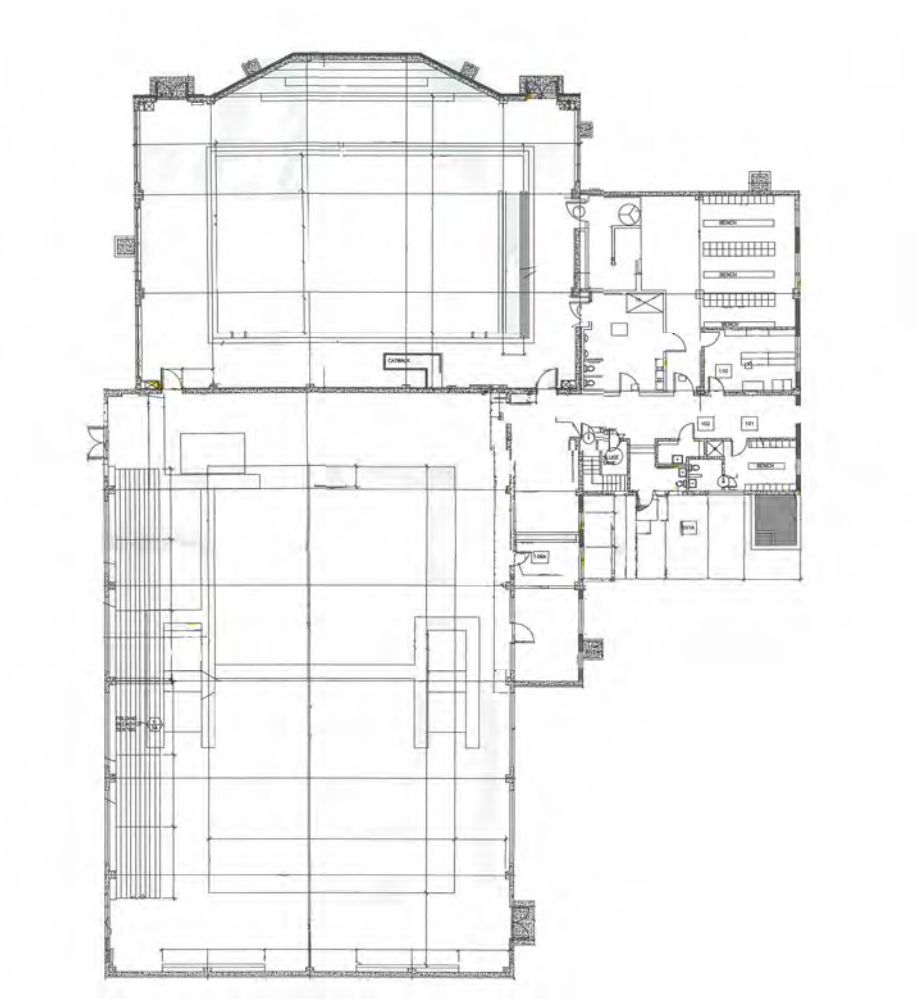
Prepared For:

SmithGroup/The Design Partnership Associate
301 Battery Street, 7th floor
San Francisco, CA

Figure 1

Asbestos Sample Location
Veterans Affairs Medical Center – Building 23
3801 Miranda Avenue (Palo Alto, CA)

October 31, 2008

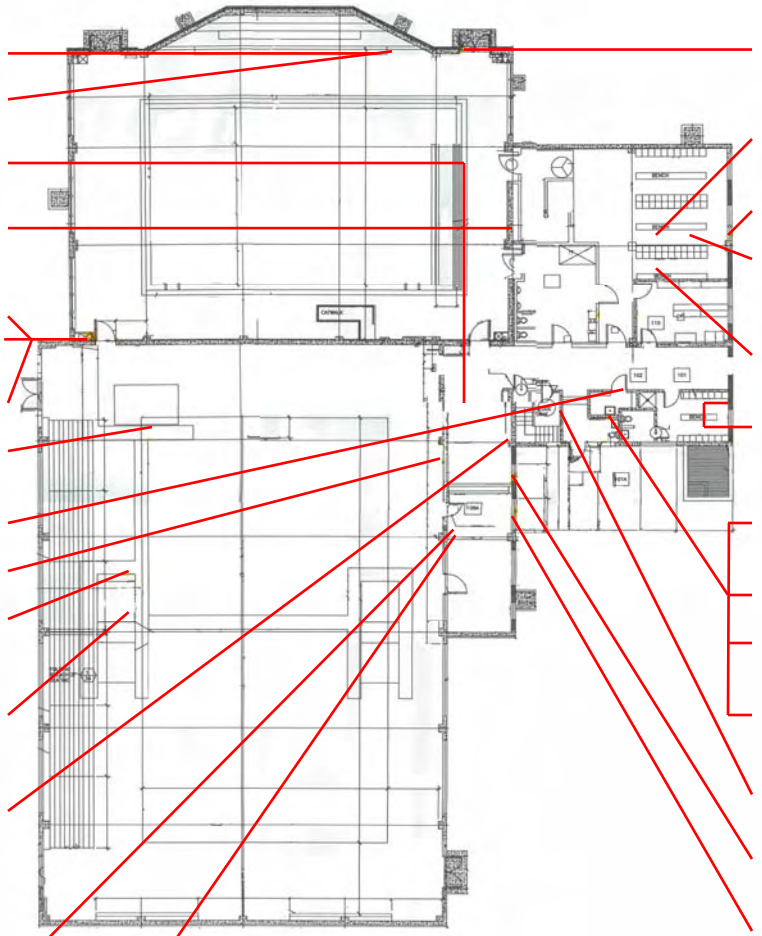


N

Figure 2

Asbestos Sample Location
Veterans Affairs Medical Center – Building 23
3801 Miranda Avenue (Palo Alto, CA)

November 3, 2008



SMG2801-11308-14A
Grout on 1" Beige Ceramic Tile

SMG2801-11308-15A
Mortar on 1" Beige Ceramic Tile

SMG2801-11308-03B
Plaster Layers at Hallway at Fire Closet

SMG2801-11308-16C
Sheetrock Composite

SMG2801-11308-16B
Sheetrock Composite

SMG2801-11308-17A
Grout on 6" Cream Ceramic Tile

SMG2801-11308-18A
Mastic

SMG2801-11308-01A
HVAC Duct Woven Canvas Wrap Over Fiberglass

SMG2801-11308-12A & 13A
Grout and Mortar on 4" Ceramic Tile

SMG2801-11308-02A
4" Yellow Cove Mastic

SMG2801-11308-01B
HVAC Duct Woven Canvas Wrap Over Fiberglass

SMG2801-11308-01C
HVAC Duct Woven Canvas Wrap Over Fiberglass

SMG2801-11308-06A
12" Vinyl Floor Tile, Yellow Mottled and Amber Mastic at 105

SMG2801-11308-04A
12" Vinyl Floor Tile White with Black Specks and Yellow Mastic at 106A

SMG2801-11308-05A
Gray Floor Tiles with Brown Mastic (Underneath 04A) at 106A

SMG2801-11308-03A
Plaster Layers at 106A Stg. Room

SMG2801-11308-16A
Sheetrock Composite

SMG2801-11308-07A
2x4' Drop In Acoustical Ceiling Panels with Small Random Holes at 109

SMG2801-11308-19B
Window Putty at Building Exterior

SMG2801-11308-07B
2x4' Drop In Acoustical Ceiling Panels with Small Random Holes at 109

SMG2801-11308-07C
2x4' Drop In Acoustical Ceiling Panels with Small Random Holes at 109

SMG2801-11308-20A
Black Tar Paper Wrap over F/G Insulated Pipes in Steam Tunnel

SMG2801-11308-08A
Mortar on 5" Ceramic Tile Gray Cove

SMG2801-11308-09A
Grout on Above at Restroom 103

SMG2801-11308-10A
Grout on 4" Ceramic Tile on Walls of 103

SMG2801-11308-11A
Mortar on 4" Ceramic Tile on Walls of 103

SMG2801-11308-03C
Plaster Layers at Hallway

SMG2801-11308-19C
Window Putty at Building Exterior

SMG2801-11308-19A
Window Putty at Building Exterior

Figure 3

Lead Sample Location
Veterans Affairs Medical Center – Building 23
3801 Miranda Avenue (Palo Alto, CA)

October 28, 2008